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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 78 31 23

Classification of the application (IPC):
A61K 31/085, A61P 9/00, A61P 11/00, A61P 11/06, A61P 43/00

Technical fields searched (IPC):
A61K, A61P

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	LIU WEI ET AL: "1-O-hexyl-2,3,5-trimethylhydroquinone inhibits I κ B phosphorylation and degradation-linked inducible nitric oxide synthase expression: beyond antioxidant function" <i>JOURNAL OF PHARMACY AND PHARMACOLOGY</i> , JOHN WILEY & SONS LTD, LONDON; GB, 01 March 2002 (2002-03-01), vol. 54, no. 3, DOI: 10.1211/0022357021778628, ISSN: 0022-3573, pages 383-389, XP008100690 * figures 2,3 *	1-10
Y	HINO T ET AL: "HTHQ (1-O-hexyl-2,3,5-trimethylhydroquinone), an anti-lipid-peroxidative compound: its chemical and biochemical characterizations" <i>BIOCHIMICA ET BIOPHYSICA ACTA (BBA) - GENERAL SUBJECTS</i> , ELSEVIER, AMSTERDAM, NL, 16 September 1998 (1998-09-16), vol. 1425, no. 1, DOI: 10.1016/S0304-4165(98)00050-6, ISSN: 0304-4165, pages 47-60, XP004276189 * page 59 * * table 1 *	1-10
Y	HESSLINGER CHRISTIAN ET AL: "Inhibition of inducible nitric oxide synthase in respiratory diseases" <i>BIOCHEMICAL SOCIETY TRANSACTIONS</i> , PORTLAND PRESS LTD, GB, 01 August 2009 (2009-08-01), vol. 37, no. 4, DOI: 10.1042/BST0370886, ISSN: 0300-5127, pages 886-891, XP008125743 * page 887 - page 889 *	1-10
Y	BARNES PETER J: "Alveolar macrophages as orchestrators of COPD" <i>COPD: JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE</i> , INFORMA HEALTHCARE, US, 01 April 2004 (2004-04-01), vol. 1, no. 1, DOI: 10.1081/COPD-120028701, ISSN: 1541-2555, pages 59-70, XP009173858 * page 66, column 2 *	1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 06 November 2018	Examiner Büttner, Ulf
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CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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Application number:
EP 16 78 31 23

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	<p>A. H. AGLER ET AL: "Randomised vitamin E supplementation and risk of chronic lung disease in the Women's Health Study" <i>THORAX</i> GB 21 January 2011 (2011-01-21), vol. 66, no. 4, DOI: 10.1136/thx.2010.155028, ISSN: 0040-6376, pages 320-325, XP055514271 * figure 2 *</p>	1-10
A,D	<p>EP 2110127 A1 (NIPPON HYPOX LAB INC [JP]) 21 October 2009 (2009-10-21) * claims *</p>	1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 06 November 2018	Examiner Büttner, Ulf
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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-10

A therapeutic agent for a chronic respiratory disease, comprising, as an active ingredient, a hydroquinone derivative represented by general formula (1)

2. claims: 11-14

A composition for inhibiting cardiac fibrosis, comprising, as an active ingredient, a hydroquinone derivative represented by general formula (1)

None of the further search fees have been paid within the fixed time limit. The present (supplementary) European search report has been drawn up for those parts of the European patent application which relate to the first mentioned in the claims, namely claims: 1-10

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 06 November 2018	Examiner Büttner, Ulf
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CATEGORY OF CITED DOCUMENTS

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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 78 31 23

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 06-11-2018
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2110127	A1	21-10-2009	
		AT 547100 T	15-03-2012
		CN 101559049 A	21-10-2009
		EP 2110127 A1	21-10-2009
		ES 2382522 T3	11-06-2012
		HK 1135619 A1	24-08-2012
		JP 4630914 B2	09-02-2011
		JP 2009256226 A	05-11-2009
		US 2009270654 A1	29-10-2009
		US 2010184858 A1	22-07-2010